

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P640972

Luminaire Tested: GWS-SA5E-830-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640972
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-830-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25453.2 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

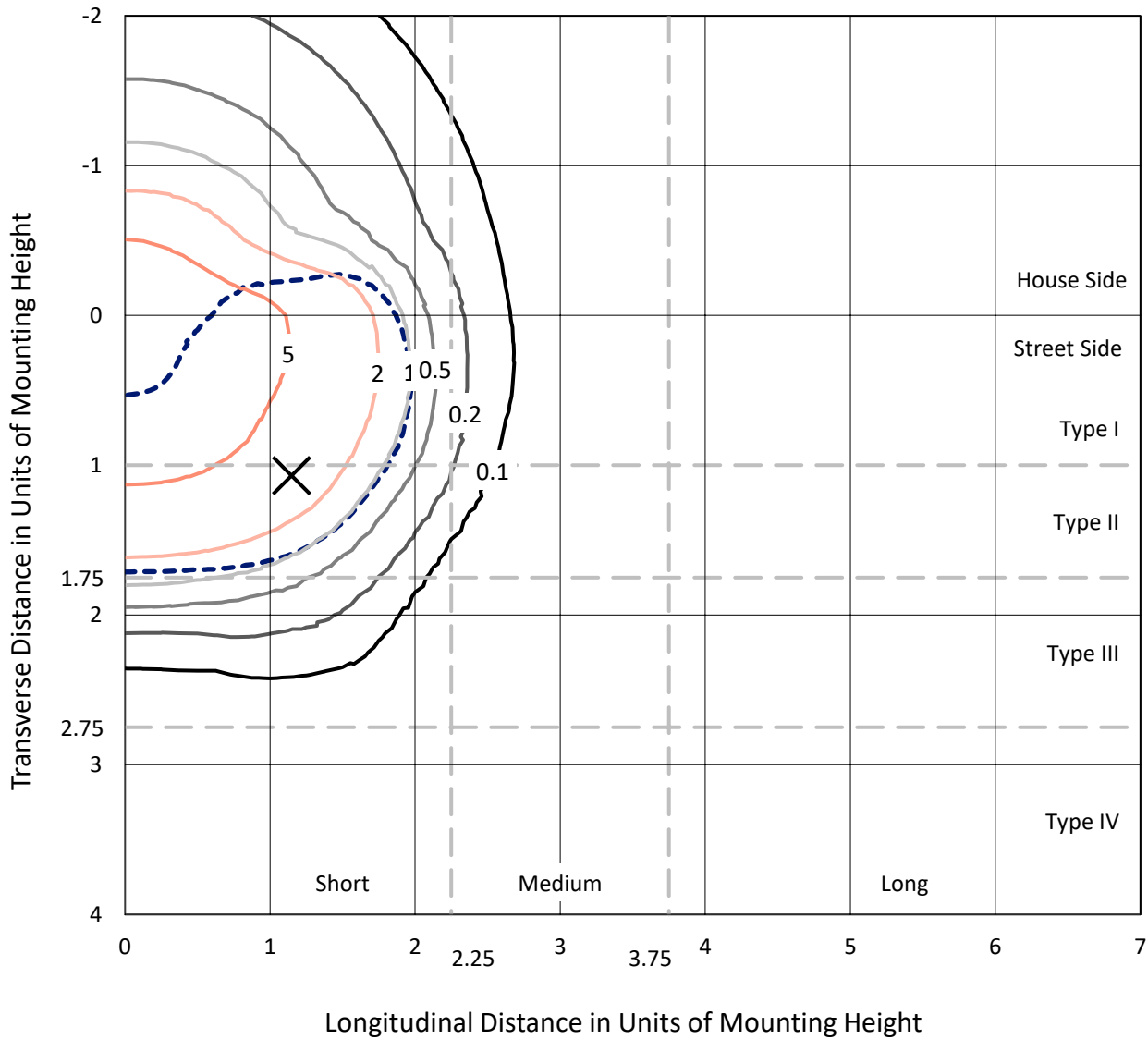
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

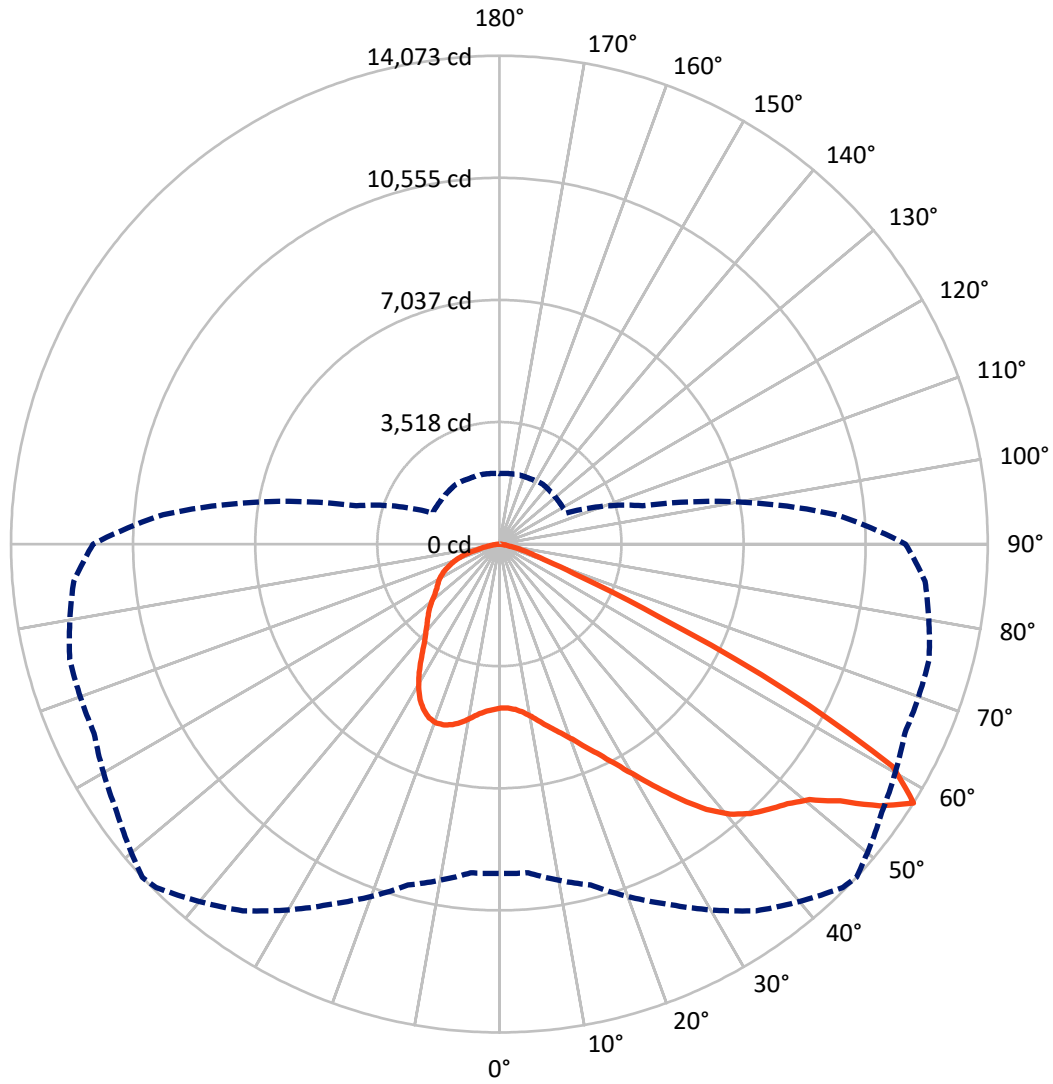
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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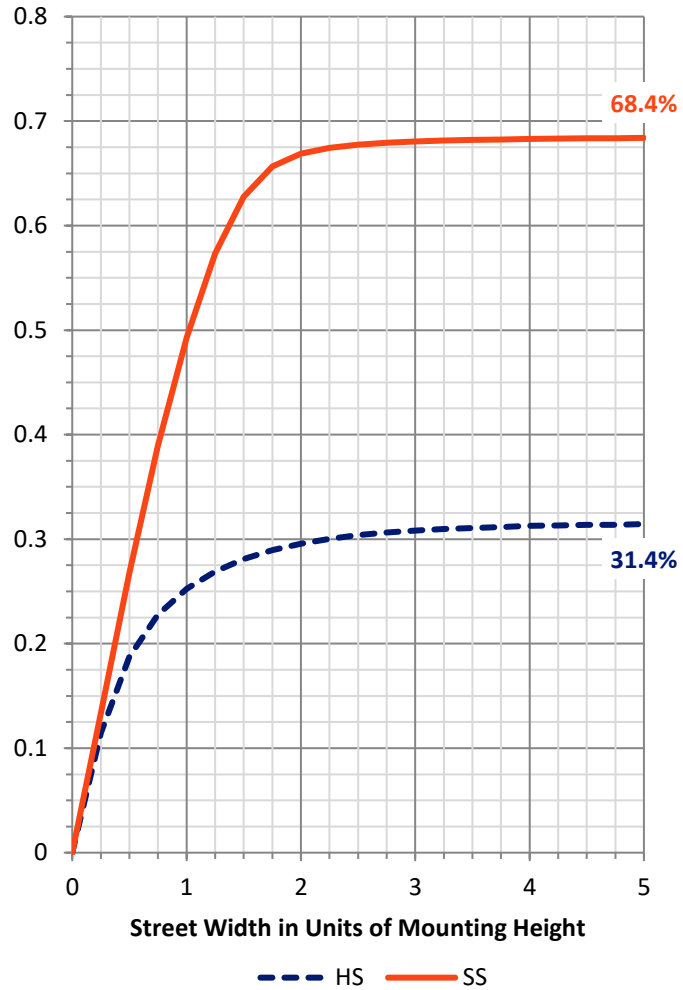
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8055.9	0.0	8055.9
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	17397.3	0.0	17397.3
	% Fixture	68.4	0.0	68.4
Total	Lumens	25453.2	0.0	25453.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.6	1.8
10°-20°	1531.3	6.0
20°-30°	2757.3	10.8
30°-40°	4164.5	16.4
40°-50°	5608.0	22.0
50°-60°	6738.8	26.5
60°-70°	3281.9	12.9
70°-80°	808.5	3.2
80°-90°	97.2	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25453.2	100.0
0°-180°	25453.2	100.0

Coefficient of Utilization

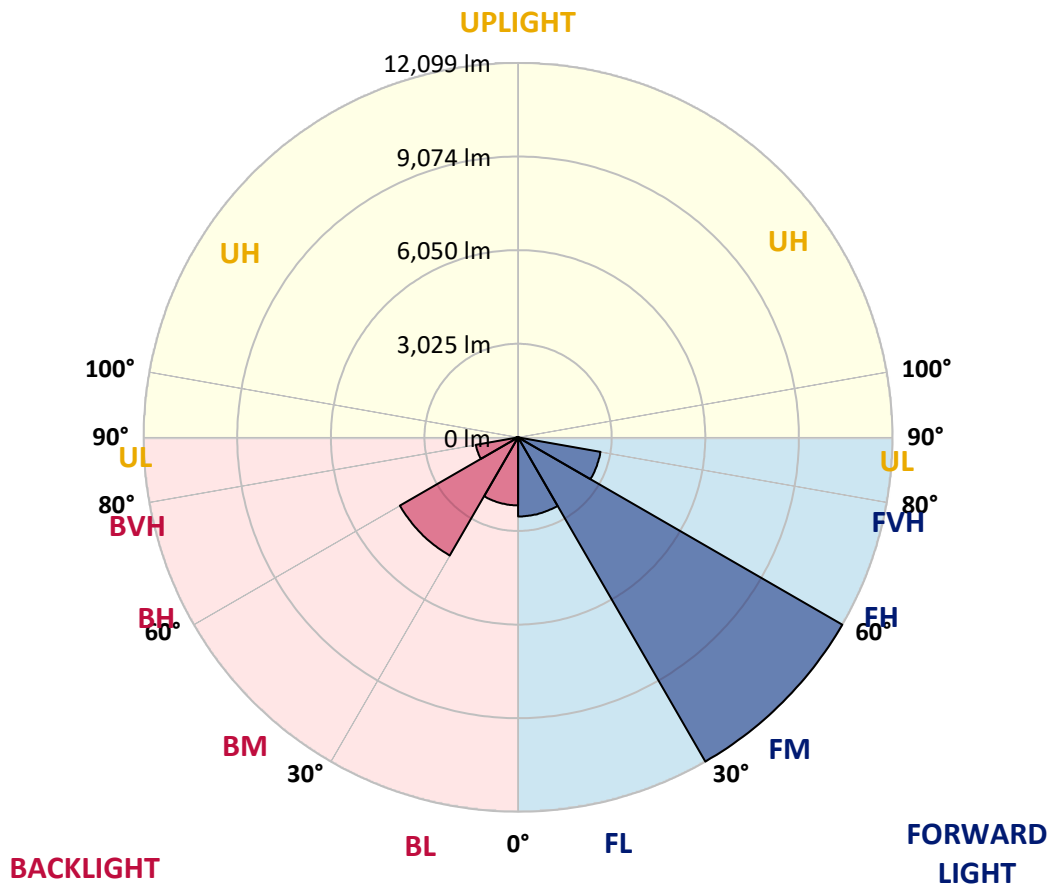


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2556.6	10.0			
FM (30°-60°)	12099.2	47.5			
FH (60°-80°)	2704.9	10.6			G2/5000
FVH (80°-90°)	36.5	0.1			G1/100
BL (0°-30°)	2197.5	8.6	B3/2500		
BM (30°-60°)	4412.2	17.3	B3/5000		
BH (60°-80°)	1385.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	60.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3
2.5°	4711.8	4709.6	4709.6	4722.5	4722.5	4726.7	4733.2	4739.6	4741.7	4731.0	4707.5
5°	4763.1	4763.1	4763.1	4773.8	4773.8	4778.1	4786.6	4788.7	4786.6	4769.5	4746.0
7.5°	4844.3	4844.3	4846.5	4859.3	4870.0	4876.4	4891.4	4889.2	4882.8	4855.0	4825.1
10°	4976.9	4983.3	4989.7	5004.7	5026.0	5041.0	5051.7	5051.7	5043.1	5000.4	4961.9
12.5°	5165.0	5173.6	5180.0	5192.8	5209.9	5235.6	5259.1	5259.1	5248.4	5194.9	5137.2
15°	5385.2	5393.7	5391.6	5395.9	5428.0	5464.3	5483.5	5496.4	5500.6	5425.8	5336.0
17.5°	5637.5	5646.0	5637.5	5624.6	5628.9	5686.6	5720.8	5767.9	5795.7	5695.2	5551.9
20°	5866.2	5857.7	5857.7	5866.2	5879.0	5949.6	6000.9	6077.9	6112.1	5990.2	5767.9
22.5°	6107.8	6127.0	6118.5	6118.5	6169.8	6287.4	6349.4	6449.8	6486.2	6328.0	6028.7
25°	6419.9	6437.0	6432.7	6437.0	6496.9	6663.6	6725.6	6911.6	6948.0	6721.3	6317.3
27.5°	6762.0	6789.8	6802.6	6798.3	6894.5	7112.6	7189.5	7448.2	7514.5	7161.7	6625.1
30°	7206.6	7236.6	7247.2	7243.0	7356.3	7653.4	7741.1	8036.1	8130.2	7683.4	7016.4
32.5°	7721.8	7751.8	7783.8	7796.7	7942.0	8245.6	8371.7	8677.5	8812.1	8286.2	7488.8
35°	8232.8	8258.4	8320.4	8420.9	8619.7	8929.7	9040.9	9342.3	9472.7	8912.6	8059.6
37.5°	8797.2	8814.3	8867.7	9006.7	9293.2	9588.2	9699.3	9988.0	10002.9	9517.6	8705.3
40°	9415.0	9415.0	9404.3	9541.1	9840.4	10137.6	10233.8	10400.6	10312.9	9983.7	9333.8
42.5°	9938.8	9930.2	9938.8	10067.1	10289.4	10531.0	10614.3	10582.3	10471.1	10340.7	9902.4
45°	10411.2	10417.7	10494.6	10593.0	10708.4	10851.6	10900.8	10719.1	10618.6	10627.2	10357.8
47.5°	10731.9	10738.3	10917.9	11082.5	11153.1	11198.0	11176.6	10924.3	10873.0	10969.2	10708.4
50°	10774.7	10808.9	11118.9	11456.6	11631.9	11638.4	11578.5	11270.6	11255.7	11364.7	10896.5
52.5°	10783.2	10817.4	11204.4	11813.7	12269.0	12365.2	12296.8	11976.1	11820.1	11711.0	11127.4
55°	10751.2	10789.6	11217.2	12053.1	12925.3	13310.1	13316.6	12863.3	12365.2	12292.5	11785.9
57.5°	9492.0	9506.9	10169.7	11443.8	12899.7	13990.0	14073.3	13457.7	12889.0	12820.6	12313.9
60°	6612.3	6672.2	7392.6	9075.1	10836.7	12758.6	13027.9	12848.4	12467.8	11969.7	10565.2
62.5°	3311.5	3362.8	4085.4	5675.9	7473.9	8991.7	9280.3	9470.6	9560.4	9025.9	7193.8
65°	1425.9	1464.4	1913.4	2965.2	4230.8	4964.0	5064.5	5293.3	5853.4	5222.7	3875.9
67.5°	953.5	979.1	1207.9	1808.6	2492.7	2539.7	2524.8	2573.9	2695.8	2225.5	1750.9
70°	731.1	752.5	906.4	1325.5	1791.5	1532.8	1451.6	1316.9	1430.2	1458.0	1419.5
72.5°	530.2	547.3	662.7	904.3	1122.4	979.1	966.3	1034.7	1188.6	1231.4	1207.9
75°	342.1	350.6	421.2	496.0	579.4	628.5	654.2	778.2	934.2	966.3	938.5
77.5°	228.7	235.2	275.8	318.5	329.2	331.4	339.9	395.5	502.4	562.2	555.8
80°	119.7	119.7	134.7	134.7	153.9	183.9	192.4	228.7	277.9	307.8	310.0
82.5°	47.0	49.2	57.7	64.1	77.0	94.1	100.5	119.7	145.4	166.8	186.0
85°	19.2	21.4	23.5	27.8	34.2	42.8	44.9	51.3	68.4	85.5	96.2
87.5°	0.0	0.0	2.1	2.1	4.3	6.4	6.4	8.6	10.7	19.2	25.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: GWS-SA5E-830-U-T3-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3
2.5°	4735.3	4707.5	4735.3	4743.8	4767.4	4775.9	4761.0	4758.8	4758.8	4737.4	4731.0
5°	4767.4	4741.7	4769.5	4782.3	4816.5	4837.9	4842.2	4859.3	4870.0	4861.4	4859.3
7.5°	4846.5	4814.4	4844.3	4863.6	4908.5	4942.7	4957.6	4996.1	5023.9	5019.6	5017.5
10°	4985.4	4942.7	4976.9	5008.9	5058.1	5098.7	5100.9	5122.2	5150.0	5141.5	5137.2
12.5°	5145.8	5105.1	5143.6	5175.7	5233.4	5250.5	5222.7	5214.2	5218.4	5207.8	5199.2
15°	5342.4	5284.7	5318.9	5355.3	5387.3	5368.1	5308.2	5284.7	5282.6	5267.6	5259.1
17.5°	5539.1	5466.4	5492.1	5511.3	5496.4	5436.5	5361.7	5321.1	5301.8	5271.9	5263.3
20°	5733.7	5641.7	5637.5	5622.5	5554.1	5445.1	5344.6	5263.3	5214.2	5173.6	5158.6
22.5°	5956.0	5827.7	5763.6	5695.2	5545.5	5368.1	5216.3	5100.9	5021.8	4970.5	4953.4
25°	6195.4	6013.7	5881.2	5744.4	5460.0	5203.5	4991.8	4833.6	4739.6	4684.0	4664.7
27.5°	6432.7	6182.6	5983.8	5750.8	5289.0	4966.2	4681.9	4468.1	4374.0	4329.1	4314.1
30°	6753.4	6407.1	6105.6	5667.4	5064.5	4637.0	4282.1	4066.2	4004.2	3972.1	3959.3
32.5°	7123.3	6691.4	6268.1	5492.1	4778.1	4252.1	3878.0	3728.4	3685.6	3623.6	3621.5
35°	7610.7	7097.6	6422.0	5233.4	4416.8	3839.5	3568.0	3461.1	3384.2	3285.8	3277.3
37.5°	8179.3	7604.3	6505.4	4904.2	3995.6	3499.6	3337.2	3217.4	3093.4	2963.0	2945.9
40°	8767.2	8196.4	6511.8	4515.1	3583.0	3275.2	3138.3	2982.3	2828.4	2683.0	2663.7
42.5°	9385.1	8748.0	6398.5	4066.2	3245.2	3080.6	2941.7	2745.0	2571.8	2473.5	2462.8
45°	9936.6	9192.7	6142.0	3593.7	2995.1	2918.1	2740.7	2529.1	2437.1	2366.6	2351.6
47.5°	10370.6	9487.7	5795.7	3170.4	2792.0	2751.4	2520.5	2411.5	2340.9	2276.8	2261.8
50°	10584.4	9554.0	5344.6	2826.2	2603.9	2554.7	2396.5	2313.1	2266.1	2214.8	2202.0
52.5°	10849.5	9628.8	4955.5	2537.6	2420.0	2353.8	2293.9	2227.6	2193.4	2161.3	2150.7
55°	11458.8	9911.0	4750.3	2306.7	2244.7	2214.8	2206.2	2150.7	2140.0	2118.6	2099.4
57.5°	11706.8	9729.3	4265.0	2118.6	2105.8	2110.0	2131.4	2080.1	2069.4	2043.8	2030.9
60°	9415.0	7354.1	2888.2	1956.1	1990.3	2018.1	2039.5	1988.2	1973.2	1968.9	1951.8
62.5°	6033.0	4523.7	2016.0	1804.3	1855.6	1889.8	1902.7	1853.5	1842.8	1877.0	1879.2
65°	3140.5	2464.9	1635.4	1641.9	1684.6	1735.9	1761.6	1744.5	1740.2	1776.5	1778.7
67.5°	1603.4	1507.2	1425.9	1449.4	1483.7	1549.9	1609.8	1684.6	1710.3	1714.5	1716.7
70°	1366.1	1323.3	1282.7	1297.7	1334.0	1370.4	1428.1	1464.4	1421.7	1411.0	1406.7
72.5°	1163.0	1130.9	1111.7	1128.8	1148.0	1141.6	1124.5	1141.6	1148.0	1150.2	1152.3
75°	904.3	880.8	865.8	868.0	868.0	844.4	812.4	793.1	771.8	754.7	754.7
77.5°	553.7	558.0	572.9	570.8	568.7	560.1	528.0	510.9	459.6	444.7	444.7
80°	316.4	322.8	337.8	342.1	342.1	331.4	299.3	280.1	256.5	245.9	243.7
82.5°	192.4	201.0	209.5	213.8	215.9	203.1	175.3	160.3	147.5	136.8	136.8
85°	100.5	104.8	113.3	115.4	109.0	96.2	81.2	74.8	62.0	59.9	59.9
87.5°	27.8	29.9	34.2	27.8	25.7	19.2	10.7	8.6	4.3	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2408-195-9
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 08/07/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: MCGRAW EDISON
 Catalog Number: **GALN-SB1A-830-U-5WQ**
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K): 3050
 CIE u': 0.2476
 CIE v': 0.5251
 Duv: 0.0034
 CIE x: 0.4383
 CIE y: 0.4131
 CIE z: 0.1487
 Peak Wavelength (nm): 603
 Dominant Wavelength (nm): 581
 Purity: 55.55201
 Rf: 81.5
 Rg: 99.2

CRI (Ra):	81.0		
R1:	79.6	R9:	7.1
R2:	85.6	R10:	67.0
R3:	92.0	R11:	82.7
R4:	82.6	R12:	63.2
R5:	78.9	R13:	80.3
R6:	81.7	R14:	95.0
R7:	85.2	R15:	71.7
R8:	62.0		



Test Conditions

Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

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Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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Scotopic Flux vs. Wavelength



Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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Melanopic Flux vs. Wavelength



Melanopic Lumens: NR

M/P: 2.32

λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

Summary

$R_f = 81.5$
 $R_g = 99.2$
 $CIE R_a = 81.0$
 $R_9 = 7.1$



Color Vector Graphics



Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)